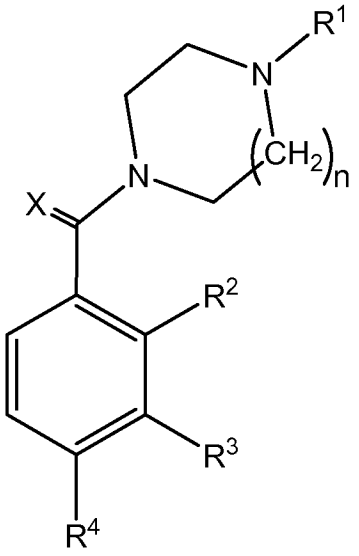
In the Claims:

This listing of claims will replace all prior versions and listing of claims in this application.

1. (currently amended) A ~~composition comprising a~~ compound of formula **(I):**



(I)

wherein

R^1 is C_{1-10} alkyl, C_{3-8} alkenyl, C_{3-8} cycloalkyl, (C_{3-8} cycloalkyl)C_{1-6} alkyl, (C_{3-8} cycloalkyl)C_{3-8} alkenyl, or (C_{1-8} alkylcarbonyl)C_{1-8} alkyl;

n is 1;

X is O or S;

one of R^2, R^3 and R^4 is G and the other two independently are hydrogen, fluoro, chloro, bromo, nitro, trifluoromethyl, methyl, or C_{1-3}alkoxy;

G is LQ;

L is unbranched $-(CH_2)_m-$ wherein m is an integer from 1 to 7;

Q is NR^8R^9 wherein R^8 is independently selected from hydrogen, C_{1-6} alkyl, C_{3-6} alkenyl, 3-9 membered carbocyclyl, 3-12 membered heterocyclyl, phenyl, (6-9-membered heterocyclyl)C_{1-6} alkylene, and (phenyl)C_{1-6} alkylene; and R^9 is independently selected from C_{1-6} alkyl, C_{3-6} alkenyl, 6-9 membered carbocyclyl, 3-12 membered heterocyclyl, phenyl, (6-9-membered heterocyclyl)C_{1-6} alkylene, and (phenyl)C_{1-6} alkylene; or

Q is a saturated 3-12 membered N-linked heterocyclyl, wherein, in addition to the N-linking nitrogen, the 3-12 membered heterocyclyl may optionally contain between 1 and 3 additional heteroatoms independently selected from O, S, and NH;

wherein Q is optionally substituted with 1-3 substituents independently selected from the group consisting of hydroxy, halo, carboxamide, C_{1-6} alkyl, 5-9 membered or 6-9 membered heterocyclyl, -N(C_{1-6} alkyl)(5-9 membered or 6-9 membered heterocyclyl), -NH(5-9 membered or 6-9 membered heterocyclyl), -O(5-9 or 6-9 membered heterocyclyl), (5-9 membered or 6-9 membered heterocyclyl)C_{1-3} alkylene, C_{1-6} alkoxy, (C_{3-6} cycloalkyl)-O-, phenyl, (phenyl)C_{1-3} alkylene, and (phenyl)C_{1-3} alkylene-O-, where each of above heterocyclyl, phenyl, and alkyl groups may be optionally substituted with from 1 to 3 substituents independently selected from trifluoromethyl, methoxy, halo, nitro, cyano, hydroxy, and C_{1-3} alkyl;

provided however that when R^1 is methyl, G is not piperidin-1-ylmethyl; and

wherein each of the above alkyl, alkylene, alkenyl, heterocyclyl, cycloalkyl, carbocyclyl, and aryl groups may each be independently and optionally substituted with between 1 and 3 substituents independently selected from trifluoromethyl, methoxy, halo, amino, nitro, hydroxy, and C_{1-3} alkyl;

provided that when R^1 is methyl or ethyl, R^2 and R^3 are both H and X is O, then R^4 is not [[5-chloro-1-(1,1-dimethylethyl)-1,6-dihydro-6-oxo-4-pyridazinyl]amino]methyl; and

provided that when R^1 is methyl, R^2 and R^3 are both H and X is O, the R^4 is not 4-morpholin-4-ylmethyl;

or a pharmaceutically acceptable salt, ester, tautomer, solvate or amide thereof.

2. (original) A compound of claim 1, wherein R^1 is C_{1-10} alkyl.

3. (original) A compound of claim 1, wherein R^1 is C_{3-5} alkyl.

4. (original) A compound of claim 1, wherein wherein R^1 is isopropyl.

5. Cancelled

6. (original) A compound of claim 1, wherein wherein X is O.

7. (original) A compound of claim 1, wherein one of R^3 and R^4 is G.

8. (original) A compound of claim 1, wherein R^4 is G.

9. (original) A compound of claim 1, wherein L is unbranched $-(CH_2)_m-$, wherein m is an integer from 1 to 4.

10. (original) A compound of claim 1, wherein L is $-CH_2-$.

11. (original) A compound of claim 1, wherein L is $-CH_2CH_2-$.

12. (original) A compound of claim 1 wherein Q is a saturated N-linked nitrogen-containing heterocyclyl.

13. (currently amended) A compound of claim_1, wherein Q is selected from substituted or unsubstituted piperidinyl, diazepanyl, azepanyl, decahydroisoquinolin-2-yl, piperazinyl, pyrrolinyl, pyrrolidinyl, thiomorpholinyl, or morpholinyl.

14. (original) A compound of claim 1, wherein Q is unsubstituted piperidinyl, diazepanyl, azepanyl, decahydroisoquinolin-2-yl, piperazinyl, pyrrolinyl, pyrrolidinyl, thiomorpholinyl, or morpholinyl.

15. (currently amended) A compound of claim 14, wherein Q is unsubstituted diazepanyl, azepanyl, morpholinyl, decahydroisoquinolin-2-yl, piperidinyl, or pyrrolidinyl~~,~~

16. (original) A compound of claim 1, wherein substituted Q are selected from N-(C_{1-6} alkyl)piperazinyl, N-phenyl-piperazinyl, 1,3,8-triaza-spiro{4.5}decyl, and 1,4-dioxa-8-aza-spiro{4.5}decyl.

17. (original) A compound of claim 1, wherein Q is a monovalent radical of an amine selected from aziridine, 1,4,7-trioxa-10-aza-cyclododecane, thiazolidine, 1-phenyl-1,3,8-triaza-spiro{4.5}decan-4-one, piperidine-3-carboxylic acid diethylamide, 1,2,3,4,5,6-hexahydro-{2,3'}bipyridinyl, 4-(3-trifluoromethyl-phenyl)-piperazine, 2-piperazin-1-yl-pyrimidine, piperidine-4-carboxylic acid amide, methyl-(2-pyridin-2-yl-ethyl)-amine, {2-(3,4-dimethoxy-phenyl)-ethyl}-methyl-amine, thiomorpholinyl, allyl-cyclopentyl-amine, {2-(1H-indol-3-yl)-ethyl}-methyl-amine, 1-piperidin-4-yl-1,3-dihydro-benzoimidazol-2-one, 2-(piperidin-4-yloxy)-pyrimidine, piperidin-4-yl-pyridin-2-yl-amine, phenylamine, pyridin-2-ylamine.

18. (original) A compound of claim 1, wherein Q is selected from diazepanyl, azepanyl, morpholinyl, piperidinyl, and pyrrolidinyl, optionally substituted with between 1 and 3 substituents selected from hydroxy, halo, carboxamide, C_{1-6} alkyl, 5-9 membered or 6-9 membered heterocyclyl, -N(C_{1-6} alkyl)(5-9 membered or 6-9 membered heterocyclyl), -NH(5-9 membered or 6-9 membered heterocyclyl), -O(5-9 or 6-9 membered heterocyclyl), (5-9 membered or 6-9 membered heterocyclyl)C_{1-3} alkylene, C_{1-6} alkoxy, (C_{3-6} cycloalkyl)-O-, phenyl, (phenyl)C_{1-3} alkylene, and (phenyl)C_{1-3} alkylene-O-, where each of above heterocyclyl, phenyl, and alkyl groups may be optionally substituted with from 1 to 3 substituents independently selected from trifluoromethyl, methoxy, halo, nitro, cyano, hydroxy, and C_{1-3} alkyl.

19. (original) A compound of claim 12, wherein Q is substituted with a substituent comprising a 5-9 membered heterocyclyl group selected from: pyridyl, pyrimidyl, furyl, thiofuryl, imidazolyl, (imidazolyl)C_{1-6} alkylene, oxazolyl, thiazolyl, 2,3-dihydro-indolyl, benzimidazolyl, 2-oxobenzimidazolyl,

(tetrazolyl)C_{1-6} alkylene, tetrazolyl, (triazolyl)C_{1-6} alkylene, triazolyl, (pyrrolyl)C_{1-6} alkylene, pyrrolidinyl, and pyrrolyl.

20. (original) A compound of claim 19, wherein Q is piperidinyl.

21. (original) A compound of claim 1, wherein R^8 is hydrogen.

22. (original) A compound of claim 1, wherein R^9 is C_{1-6} alkyl.

23. (original) A compound of claim 1, wherein R^9 is unsubstituted or substituted phenyl.

24. (original) A compound of claim 1, wherein R^8 and R^9 independently are C_{1-6} alkyl.

25. (original) A compound of claim 1, wherein R^8 and R^9 are methyl.

26. (original) A compound of claim 1, wherein R^8 and R^9 are ethyl.

27. (currently amended) A compound of claim 21, wherein R^9 is selected from phenyl or 5-9 membered aromatic heterocyclyl, wherein said phenyl or aromatic heterocyclyl is optionally substituted with 1-3 substituents selected from methoxy, hydroxy, halo, nitro, ~~cyano~~ amino, trifluoromethyl, and C_{1-3} alkyl.

28. (currently amended) A compound of claim 27, wherein R^9 is selected from substituted or unsubstituted phenyl, pyridyl, pyrimidyl, furyl, thiofuryl, imidazolyl, (imidazolyl)C_{1-6}3 alkylene, oxazolyl, thiazolyl, 2,3-dihydro-indolyl, benzimidazolyl, 2-oxobenzimidazolyl, (tetrazolyl)C_{1-6}3 alkylene, tetrazolyl, (triazolyl)C_{1-6}3 alkylene, triazolyl, (pyrrolyl)C_{1-6}3 alkylene, pyrrolidinyl, and pyrrolyl.

29. (original) A compound of claim 28, wherein R^9 is phenyl.

30. (original) A compound of claim 28, wherein R^9 is substituted or unsubstituted pyridyl.

31. (original) A compound of claim 1 wherein

R^1 is C_{1-10} alkyl;

X is O;

R^4 is G;

L is $-CH_2-$; and

Q is a saturated N-linked nitrogen-containing heterocyclyl.

32. (original) A compound of claim 31 wherein R^1 is branched.

33. (original) A compound of claim 31 wherein R^1 is C_{3-5} alkyl.

34. (original) A compound of claim 31, wherein wherein R^1 is isopropyl.

35. (original) A compound of claim 31, wherein Q is selected from substituted or unsubstituted piperidinyl, diazepanyl, azepanyl, decahydroisoquinolin-2-yl, piperazinyl, pyrrolinyl, pyrrolidinyl, thiomorpholinyl, or morpholinyl.

36. (original) A compound of claim 31, wherein Q is unsubstituted azepanyl, diazepanyl, morpholinyl, decahydroisoquinolin-2-yl, piperidinyl, or pyrrolidinyl.

37. (currently amended) A compound of claim 1 selected from the group consisting of:

(4-{[Ethyl-(2-methoxy-ethyl)-amino]-methyl}-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone;

(4-Azepan-1-ylmethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Azepan-1-ylmethyl-phenyl)-(4-*sec*-butyl-piperazin-1-yl)-methanone;

(4-Azepan-1-ylmethyl-phenyl)-{4-(1-ethyl-propyl)-piperazin-1-yl}-methanone;

(4-Butyl-piperazin-1-yl)-(4-dimethylaminomethyl-phenyl)-methanone;

(4-Butyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone;

(4-Butyl-piperazin-1-yl)-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone;

(4-Butyl-piperazin-1-yl)-{4-{(4-trifluoromethyl-phenylamino)-methyl}-phenyl}-methanone;

(4-Cyclohexyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Diethylaminomethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Dimethylaminomethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Dimethylaminomethyl-phenyl)-{4-(1-ethyl-propyl)-piperazin-1-yl}-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-(3-morpholin-4-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(3-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-{[(2-methoxy-ethyl)-propyl-amino]-methyl}-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-phenylaminomethyl-phenyl)-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-(4-thiomorpholin-4-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-{4-(4-isopropyl-piperazin-1-ylmethyl)-phenyl}-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-[(2-methoxy-ethylamino)-methyl]-phenyl}-methanone;

(4-Isopropyl-piperazin-1-yl)-[4-(pyridin-2-ylaminomethyl)-phenyl]-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-[(2-methoxy-1-methyl-ethylamino)-methyl]-phenyl}-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-{(4-trifluoromethyl-phenylamino)-methyl}-phenyl}-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-{(4-trifluoromethyl-pyridin-2-ylamino)-methyl}-phenyl}-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-{4-{(5-trifluoromethyl-pyridin-2-ylamino)-methyl}-phenyl}-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-{4-{(6-trifluoromethyl-pyridin-3-ylamino)-methyl}-phenyl}-methanone dihydrochloride;

~~(4-Methyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride;~~

(4-Methyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone dihydrochloride;

(4-*sec*-Butyl-piperazin-1-yl)-(4-dimethylaminomethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride;

(4-*sec*-Butyl-piperazin-1-yl)-(4-phenylaminomethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone dihydrochloride;

{3-(4-Benzyl-piperidin-1-ylmethyl)-phenyl}-(4-methyl-piperazin-1-yl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-phenylaminomethyl-phenyl)-methanone dihydrochloride;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-piperidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone dihydrochloride;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-{4-(decahydro-isoquinolin-2-ylmethyl)-phenyl}-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-{4-{(4-trifluoromethyl-phenylamino)-methyl}-phenyl}-methanone dihydrochloride;

{4-(1-Methyl-heptyl)-piperazin-1-yl}-(4-morpholin-4-ylmethyl-phenyl)-methanone;

{4-(1-Methyl-heptyl)-piperazin-1-yl}-(4-piperidin-1-ylmethyl-phenyl)-methanone;

{4-(Benzylamino-methyl)-phenyl}-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

{4-(Benzylamino-methyl)-phenyl}-{4-(1-ethyl-propyl)-piperazin-1-yl}-methanone; and

{4-{(5-Chloro-pyridin-2-ylamino)-methyl}-phenyl}-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride.

38. (currently amended) A compound of claim 1 selected from the group consisting of:

(4-{[Ethyl-(2-methoxy-ethyl)-amino]-methyl}-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone;

(4-Azepan-1-ylmethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Azepan-1-ylmethyl-phenyl)-(4-*sec*-butyl-piperazin-1-yl)-methanone;

(4-Azepan-1-ylmethyl-phenyl)-{4-(1-ethyl-propyl)-piperazin-1-yl}-methanone;

(4-Butyl-piperazin-1-yl)-(4-dimethylaminomethyl-phenyl)-methanone;

(4-Butyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone;

(4-Butyl-piperazin-1-yl)-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone;

(4-Cyclohexyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Diethylaminomethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Dimethylaminomethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Dimethylaminomethyl-phenyl)-{4-(1-ethyl-propyl)-piperazin-1-yl}-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-(3-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-{[(2-methoxy-ethyl)-propyl-amino]-methyl}-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-phenylaminomethyl-phenyl)-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-(4-thiomorpholin-4-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-{4-(4-isopropyl-piperazin-1-ylmethyl)-phenyl}-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-[(2-methoxy-ethylamino)-methyl]-phenyl}-methanone;

(4-Isopropyl-piperazin-1-yl)-[4-(pyridin-2-ylaminomethyl)-phenyl]-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-[(2-methoxy-1-methyl-ethylamino)-methyl]-phenyl}-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-{(5-trifluoromethyl-pyridin-2-ylamino)-methyl}-phenyl}-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-{4-{(6-trifluoromethyl-pyridin-3-ylamino)-methyl}-phenyl}-methanone dihydrochloride;

~~(4-Methyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride;~~

(4-Methyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone dihydrochloride;

(4-*sec*-Butyl-piperazin-1-yl)-(4-dimethylaminomethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride;

(4-*sec*-Butyl-piperazin-1-yl)-(4-phenylaminomethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone dihydrochloride;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-piperidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone dihydrochloride;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-{4-(decahydro-isoquinolin-2-ylmethyl)-phenyl}-methanone;

{4-(Benzylamino-methyl)-phenyl}-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

{4-(Benzylamino-methyl)-phenyl}-{4-(1-ethyl-propyl)-piperazin-1-yl}-methanone; and

{4-{(5-Chloro-pyridin-2-ylamino)-methyl}-phenyl}-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride.

39. (original) A compound of claim 1 selected from the group consisting of:

(4-{[Ethyl-(2-methoxy-ethyl)-amino]-methyl}-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone;

(4-Azepan-1-ylmethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Azepan-1-ylmethyl-phenyl)-(4-*sec*-butyl-piperazin-1-yl)-methanone;

(4-Azepan-1-ylmethyl-phenyl)-{4-(1-ethyl-propyl)-piperazin-1-yl}-methanone;

(4-Butyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone;

(4-Cyclohexyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Diethylaminomethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Dimethylaminomethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Dimethylaminomethyl-phenyl)-{4-(1-ethyl-propyl)-piperazin-1-yl}-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-(4-{[(2-methoxy-ethyl)-propyl-amino]-methyl}-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-(4-thiomorpholin-4-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-{4-[(2-methoxy-ethylamino)-methyl]-phenyl}-methanone;

(4-Isopropyl-piperazin-1-yl)-[4-(pyridin-2-ylaminomethyl)-phenyl]-methanone;

(4-Isopropyl-piperazin-1-yl)-{4-[(2-methoxy-1-methyl-ethylamino)-methyl]-phenyl}-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-dimethylaminomethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride;

(4-*sec*-Butyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-piperidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone dihydrochloride;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-{4-(decahydro-isoquinolin-2-ylmethyl)-phenyl}-methanone;

{4-(Benzylamino-methyl)-phenyl}-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride; and

{4-(Benzylamino-methyl)-phenyl}-{4-(1-ethyl-propyl)-piperazin-1-yl}-methanone.

40. (original) A compound of claim 1 selected from the group consisting of:

(4-Azepan-1-ylmethyl-phenyl)-(4-isopropyl-piperazin-1-yl)-methanone dihydrochloride;

(4-Azepan-1-ylmethyl-phenyl)-(4-*sec*-butyl-piperazin-1-yl)-methanone;

(4-Cyclohexyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone dihydrochloride;

(4-Isopropyl-piperazin-1-yl)-{4-(3-trifluoromethyl-piperidin-1-ylmethyl)-phenyl}-methanone dihydrochloride;

(4-*sec*-Butyl-piperazin-1-yl)-(4-dimethylaminomethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-piperidin-1-ylmethyl-phenyl)-methanone; and

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone.

41. (original) A compound of claim 1 selected from the group consisting of:

(4-Azepan-1-ylmethyl-phenyl)-(4-*sec*-butyl-piperazin-1-yl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

(4-*sec*-Butyl-piperazin-1-yl)-(4-piperidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-piperidin-1-ylmethyl-phenyl)-methanone;

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-pyrrolidin-1-ylmethyl-phenyl)-methanone;

(4-Isopropyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone;

(4-sec-Butyl-piperazin-1-yl)-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride; and

{4-(1-Ethyl-propyl)-piperazin-1-yl}-(4-morpholin-4-ylmethyl-phenyl)-methanone dihydrochloride.

42. (original) A pharmaceutical composition, comprising a compound of claim 1 and a pharmaceutically-acceptable excipient.

43. (original) A compound of claim 1 isotopically-labelled to be detectable by PET or SPECT.

44. (original) A method of inhibiting histamine H_3 receptor activity in a subject, comprising administering an effective amount of a compound of claim 1 to a subject in need of such inhibition of histamine H_3 receptor activity.

45. (original) A method of treating a subject having a disease or condition modulated by histamine H_3 receptor activity, comprising administering to the subject a therapeutically effective amount of a compound of claim 1.

46. (original) A method of claim 45, wherein said disease or condition is selected from the group consisting of sleep/wake disorders, arousal/vigilance disorders, migraine, asthma, dementia, cognitive dysfunction, neurogenic inflammation, mild cognitive impairment (pre-dementia), Alzheimer's disease, epilepsy, narcolepsy, eating disorders, obesity, motion sickness, vertigo, attention deficit hyperactivity disorders, learning disorders, memory retention disorders, schizophrenia, substance abuse, bipolar disorders, manic disorders and depression, nasal congestion, itch, allergic rhinitis, and upper airway allergic response.

47. (withdrawn) A method for treating a disease or condition modulated by at least one receptor selected from the histamine H_1 receptor and the histamine H_3 receptor, said method comprising (a) administering to a subject a jointly effective amount of a histamine H_1 receptor antagonist compound, and (b) administering to the subject a jointly effective amount of a compound of claim 1, said method providing a jointly therapeutically effective amount of said compounds.

48. (withdrawn) The method of claim 47 wherein the histamine H_1 receptor antagonist and the compound of claim 1 are present in the same dosage form.

49. (withdrawn) A method for treating diseases or conditions modulated by at least one receptor selected from the histamine H_2 receptor and the histamine H_3 receptor in a subject, comprising (a) administering to the subject a jointly effective amount of a histamine H_2 receptor antagonist compound, and (b) administering to the subject a jointly effective amount of a compound of claim 1, said method providing a jointly therapeutically effective amount of said compounds.

50. (withdrawn) The method of claim 39 wherein the histamine H_2 receptor antagonist and the compound of claim 1 are present in the same dosage form.

51. (original) A method for treating one or more disorders or conditions selected from the group consisting of sleep/wake disorders, narcolepsy, and arousal/vigilance disorders, comprising administering to a subject a therapeutically effective amount of a compound of claim 1.

52. (original) A method for treating attention deficit hyperactivity disorders (ADHD), comprising administering to a subject a therapeutically effective amount of a compound of claim 1.

53. (original) A method for treating one or more disorders or conditions selected from the group consisting of dementia, mild cognitive impairment (pre-dementia),

cognitive dysfunction, schizophrenia, depression, manic disorders, bipolar disorders, and learning and memory disorders, comprising administering to a subject a therapeutically effective amount of a compound of claim 1.

54. (original) A method for treating or preventing upper airway allergic response, itch, nasal congestion, or allergic rhinitis, comprising administering to a subject a therapeutically effective amount of a compound of claim 1.

55. (original) A method for studying disorders mediated by the histamine H_3 receptor, comprising using an ^{18}F-labeled or ^{11}C-labelled compound of claim 1 as a positron emission tomography (PET) molecular probe.